

DESIGNERS OF ARMAMENT AND EQUIPMENT FOR USSR ARMED FORCES

A. Designers of Aircraft

Yakovlev, A. S.

Talented designer, Hero of Socialist Labor. Has designed about 30 types of aircraft, from the light sport model to the most modern fighter. Does not "rest on laurels" but continues to make new designs. During World War II he did considerable work in modernizing fighters already in serial production and in creating new types of military aircraft. Yakovlev fighters are fast, well-armed, ^{equipped} easy to control, and simple to operate. They displayed outstanding combat qualities in fights with German planes such as the Messerschmitt, Heinkel, and Focke-Wulf.

Lavochkin, S. A.

Hero of Socialist Labor. Designer of the La-5, which proved very effective in combat with enemy fighters and bombers. Infantry and tanks supported by groups of La-5s had devastating effect on the enemy.

Il'yushin, S. V.

Hero of Socialist Labor. Designed a standard type of assault plane, of completely original design, the Il-2, the "flying tank." This plane was successfully employed against German tanks and armored units. Effective armor protected the Il-2 while operating in areas of concentrated fire.

Tupolev, A. N. and Polikarpov, N. N.

Oldest aircraft designers of the USSR. Designed new types of combat plane during the war.

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Aircraft designer. Well known as the originator of the Soviet design for the dive bomber.

B. Designers of Aircraft Armament and Equipment**Shvetsov, A. D.**

Eminent designer of aircraft engines. During the war he designed a powerful, new aircraft engine which made it possible to increase extensively the speed and load capacity of combat planes. Shvetsov's engine is very dependable in operation, with long service life under combat conditions.

Klimov, V. Ya. and Mikulin, A. A.

Heroes of Socialist Labor. Have designed powerful, new types of aircraft engines. Mikulin's engine, installed in the Il-2, proved to have the same high qualities which preliminary tests had indicated.

Charomskiy, A. D.

Designer. Created a special high-powered aircraft engine.

Shpital'nyy, B. G., Nudel'man, L. B., Volkov, A. A., and Yartsev, S. A.

Designers of guns and machine guns for aircraft. Many types of guns designed by them were effectively used during the war against enemy aircraft, tanks, motor vehicles, and gasoline tank cars.

C. Scholars and Scientists Who Have Contributed to Aviation**Chaplygin**

Eminent scholar who helped furnish the theoretical background in aerodynamics which was required for the development of aviation technique.

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Kristianovich, S. A.

Academician. Student of Chaplygin, and of the late N. Ye. Zhukovskiy, who in 1902 constructed the first Russian wind tunnel to test small models of airplanes. His scientific work was devoted to problems of high speed in aviation and permitted the establishment of precise calculations in the production of fast and superfast planes.

Keldysh, M. V. and Grossman, Ye. P.

Professors and students of Zhukovskiy and Chaplygin. Provided USSR aviation construction with methods of calculation which permitted increase in the durability of aircraft.

Kishkin, S. P.

Professor. His research made possible the production of new, domestic, bulletproof aircraft armor.

Shishkin, S. N., Yur'yev, B. N. (student of Zhukovskiy and Chaplygin), Makarevskiy, A. I., and Chesalov, A. V.

These and other professors at the Central Aerohydrodynamics Institute imeni N. Ye. Zhukovskiy (TsAGI) have issued a manual for designers containing a synthesis of all scientific activity of TsAGI on aerodynamics and aircraft durability, power plants and testing. Scientific workers of the Institute have rendered considerable service to the development of aviation.

Ostoslavskiy, I. V.

Professor at Central Aerohydrodynamics Institute imeni N. Ye. Zhukovskiy. Collaborated with scientific associates on problems of increasing speed of serial aircraft. Application of their methods in plants led to a notable increase in the speed of serial aircraft.

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D. Designers of Navy Equipment**Malinin, B. M.**

Professor. One of oldest Soviet shipbuilders. Malinin directed a group of workers in constructing a new type of warship in 1942 which proved to have excellent qualities under combat conditions.

Polushkin and Zhukovskiy

Directors of two outstanding groups of shipbuilders who in 1943 constructed new types of warships.

Shamarin, N. N. and Brykin, A. Ye.

Engineers. Included in a group of talented, young designers who created a new type of navy armament which proved to be effective in many naval operations.

Atom'yan, A. E., Kuznetsov, V. I., and D'yakonov, V. A.

Designers. Provided the navy with modern instruments for increasing accuracy of ship artillery fire.

Aleksandrov, A. F.

Professor, Leningrad Physicotechnical Institute. Headed large group of inventors who developed a notable method of protecting USSR warships.

E. Designers of Various Types of Guns**Mosin**

Captain. Created Russian rifle, 1891 model, which is still considered one of the best in the world.

Petrov, F. F.

Young designer, Hero of Socialist Labor. Has been working for a

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number of years on new artillery models in collaboration with a group of designers. Pieces of artillery created by them gave a fine performance at the front in World War II. In 1943 Petrov created a heavy howitzer which surpasses all previous guns of this type in combat and tactical qualities.

Grabin V. G. and Ivanov I. I.

Heroes of Socialist Labor, generals. Well-known designers and artillery men. Created new types of mass artillery.

Dorokhin. G. D.

Designed antiaircraft guns with very fine combat qualities

Rudvak. Ye. G.

Directed group of workers in the construction of new types of naval artillery. Volosatov, G. P., Sinil'shchikov, Ye. V., Krupchatnikov, M. Ya., and other participated.

Brill', D. Ye., Florenskiy, A. A., and Lodkin. S. I.

Headed group of designers of new naval artillery.

Dukel'skiy, A. G., and Others

Designed naval and railroad artillery mountings which played an important role in the battles of Stalingrad and Leningrad.

Simonov. S. G.

Designer. Created the antitank rifle in the fall of 1943, which was successfully used against medium and light tanks, armored cars, aircraft, and ammunition trains.

Shpagin. G. S.

Designed the Soviet submachine gun (PPSh).

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Young designer who, in 1943, gave the Red Army a new, even more efficient type of submachine gun.

Goryunov, P. M.

Talented designer. Headed group of gunsmiths who produced a new machine gun for the Red Army in 1943. This machine gun is considerably lighter than the well-known Maxim gun, easier to operate, and simpler to manufacture. Its combat qualities completely conform to all modern requirements.

Degtarev, V. A., Tokarev, F. V.

Heroes of Socialist Labor. Widely known in the USSR as the designers of various types of automatic weapons.

Pobedonostsev, Yu. A., Aborankov, V. V., Gray, I. I., and Kuznetsov, N. N.

Soviet designers. Designed and improved rocket guns (reaktivnaya pushka).

Shayrin, B. I., Yagunov, Ya. A., and Shamarin, V. N.

Designers of mortars which were highly rated by Soviet soldiers.

F. Designers of Tanks**Morozov, A. A.**

Hero of Socialist Labor. Director of group of designers who created the T-34, a medium tank, which surpasses all known medium tanks of foreign armies in technical and tactical qualities. In 1943 Morozov's workers were able to improve considerably the combat qualities of the T-34 and make it an even more menacing weapon.

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Hero of Socialist Labor. Talented young designer. Directed group of engineers in the creation of the well-known KV heavy tank.

Lingart, A. A., Astrov, N. A., and Others

Designers, worked successfully at designing and perfecting the light tank.

Makhonin, S. N., Trovancov, L. S., Bulashev, A. N., and Others

Designers. Gave the Red Army new, superior models of self-propelled artillery with the help of which USSR soldiers succeeded in destroying the lauded German Tigers, Panthers, and Ferdinands.

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Note: This document has been translated with no rearrangement of of the order in which the material appears, so that the reports are not in chronological order.

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Internal inconsistencies, and statements not in accord with known facts about personalities, locations, units, weapons, and events, are so numerous and obvious that little attempt has been made to indicate or explain them in the translation.

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